



Deseret CSEPP Community Full-Scale Exercise 2004

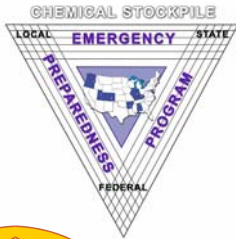
“Making it Happen!”

Wednesday, September 15, 2004

Governor's Citizen Advisory Committee
Thursday, September 23, 2004

Presented by: Kari Sagers, Director
Tooele County Emergency Management

Deseret CSEPP Community



- ★ DCD/Department of the Army
- ★ Tooele County, Utah County, Salt Lake County
- ★ State of Utah/FEMA Region VIII
- ★ Various military installations, emergency response agencies, volunteer organizations, business and industry



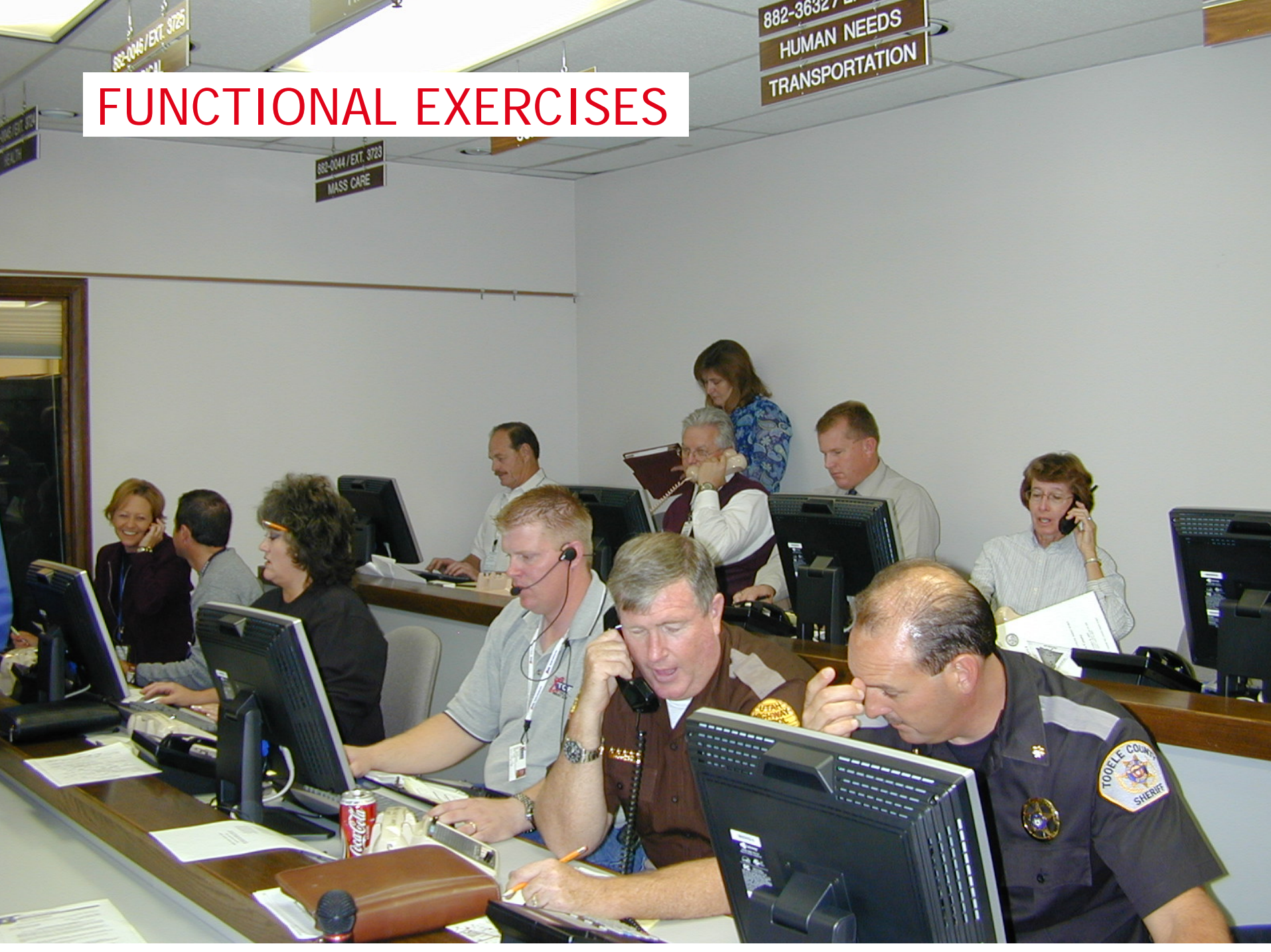
DRILLS



TABLETOP EXERCISES



FUNCTIONAL EXERCISES



CAIRA EXERCISES





CSEPP FULL-SCALE EX04

Bringing it all together . . .

Exercise design



Exercise "extras"



"Victim" actor briefings



*Photo courtesy of
Bob Norville, FEMA HQ*

Scene setup



*Photo courtesy of
Herman Herrera, TCSO*

Radio traffic simulation



*Photo courtesy of
Bob Norville, FEMA HQ*

Public awareness / safety measures





Scenario Initiating Event

- ★ Hydrogen tank used for agent monitoring systems dropped during unloading
- ★ Broken valve stem results in rapid pressure release, propelling hydrogen tank into flatbed truck carrying VX spray tank
- ★ Static discharge ignites hydrogen/air mix and fire ignites fuel leaking from flatbed truck
- ★ Workers believe hydrogen tank struck VX spray tank on truck bed and report possible chemical fire

- ★ Hydrogen tank dropped during unloading
- ★ Broken valve stem propels tank into flatbed truck carrying VX spray tank



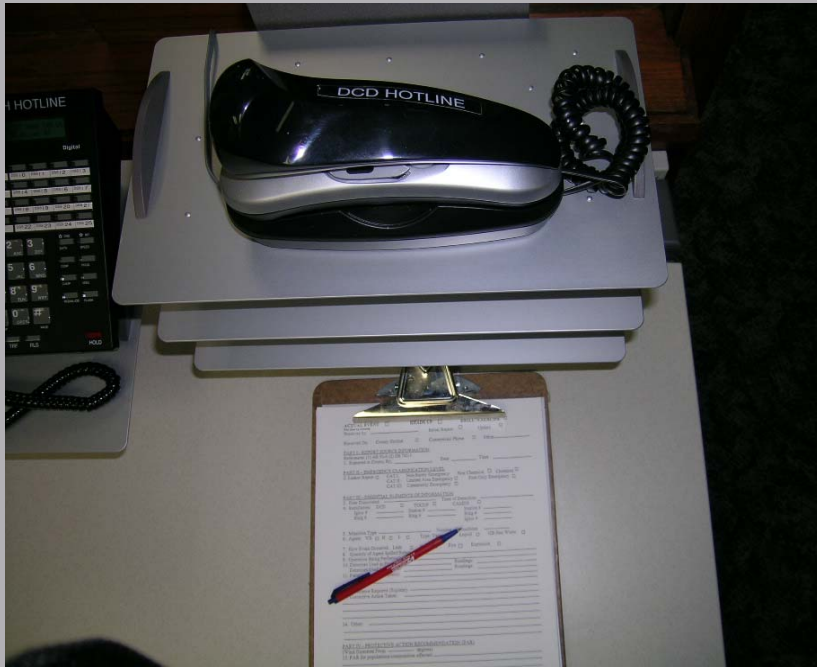
Photo courtesy of DCD

- ★ Static discharge ignites fuel leaking from flatbed truck
- ★ Workers believe VX spray tank was hit and report possible chemical fire



Photo courtesy of DCD

- ★ County notified by DCD of reported explosion and fire
- ★ MCE plume projection transmitted
- ★ "Community Emergency" declared w/ Protective Action Recommendation



- ★ Protective actions determined
- ★ Emergency instructions broadcast to the public
- ★ Precautionary evacuation implemented – Reception Centers Opened



- ★ Full EOC activation
- ★ Ongoing hazard assessment
- ★ Coordinated dispatch of 3 RTAPS off-post to conduct agent monitoring



Photo courtesy of Troy Boman,
Tooele Transcript Bulletin

★ Centralized incident management and multi-jurisdictional coordination



*Photo courtesy of Troy Boman,
Tooele Transcript Bulletin*

- ★ Traffic access and control and mobile decon sites established
- ★ Multi-agency, multi-jurisdictional response coordination



*Photo courtesy of Troy Boman,
Tooele Transcript Bulletin*

★ Hospital decon operations



*Photo courtesy of
Herman Herrera, TCSO*

★ Hospital decon operations



*Photo courtesy of
Bob Norville, FEMA HQ*

★ MWMC Emergency Department preparing to receive patients



*Photo courtesy of
Herman Herrera, TCSO*

★ Mobile decon site at SR-36 near Stockton



*Photo courtesy of
Herman Herrera, TCSO*

★ Mobile decon site at SR-36 near Stockton



*Photo courtesy of Troy Boman,
Tooele Transcript Bulletin*

★ Mobile decon site at SR-36 near Stockton



*Photo courtesy of Troy Boman,
Tooele Transcript Bulletin*

★ Mobile decon site SR-73 near Eagle Mountain coordinates through Utah County EOC



Photo courtesy of
Argonne National Laboratories

★ Mobile decon site at SR-36 near Lake Point



*Photo courtesy of Mike Kelsey
Salt Lake County Emergency Services*

★ Mobile decon site at SR-36 near Lake Point



★ Mobile decon site at SR-36 near Lake Point



*Photo courtesy of Mike Kelsey
Salt Lake County Emergency Services*

- ★ A bomb threat is telephoned to Tooele High School
- ★ Assistance is requested from the Regional Bomb Squad



*Photo courtesy of
Herman Herreña, TCSO*

- ★ Students are evacuated from the school to a designated relocation area approximately 2-3 blocks away



*Photo courtesy of
Herman Herrera, TCSO*

- ★ A vehicle collides with a telephone pole near the Stockton decon site
- ★ Upon impact, the vehicle erupts in fire



*Photo courtesy of
Bob Norville, FEMA HQ*

★ 3 responders suffer minor burns and symptoms of smoke inhalation



*Photo courtesy of
Bob Norville, FEMA HQ*

★ 4 people in the vehicle are critically injured



*Photo courtesy of
Herman Herrera, TCSO*

★ On-scene triage and treatment



*Photo courtesy of Troy Boman,
Tooele Transcript Bulletin*

★ Extra preparations provides realism for responders



*Photo courtesy of
Bob Norville, FEMA HQ*

★ Victims transported to medical facilities



*Photo courtesy of Troy Boman,
Tooele Transcript Bulletin*

- ★ Joint information system (JIS) implemented immediately
- ★ Joint Information Center (JIC) activated and operated



*Photo courtesy of
Bob Norville, FEMA HQ*

★ Cooperative team effort demonstrated in press conference



*Photo courtesy of
Bob Norville, FEMA HQ*

★ Exercise draws local media interest



*Photo courtesy of Troy Boman,
Tooele Transcript Bulletin*

★ “Real media” interview during lull in EOC activity provides preparedness publicity



*Photo courtesy of Troy Boman,
Toohe Transcript Bulletin*

★ Broadcast and print media representatives tour exercise sites and conclude with interviews with policy-level spokespersons



*Photo courtesy of
Bob Norville, FEMA HQ*



Deseret CSEPP Community

CSEPP Readiness Ratings

C **Capable**

PC **Partially Capable, Ability to Respond
Needs Minor Improvement**

MC **Marginally Capable, Ability to Respond
Needs Major Improvement**

NC **Not Capable of Response**



Deseret CSEPP Community

Rated “CAPABLE” in all
Emergency Response Outcomes

- ★ 1. Prevention and Preparedness
- ★ 2. Emergency Assessment
- ★ 3. Emergency Management
- ★ 4. Accident Site Hazard Mitigation
- ★ 5. Protection
- ★ 6. Victim Care
- ★ 7. Evacuee Support
- ★ 8. Remediation and Recovery

Deseret CSEPP Community

- ★ Emergency readiness is a team effort
- ★ The Deseret CSEPP Community works together to provide continuous public protection



Communication, Coordination, Cooperation!



Deseret Chemical Depot

U.S. ARMY CHEMICAL MATERIALS AGENCY
CREATING A SAFER TOMORROW

Deseret Chemical Depot Update

Colonel Raymond Van Pelt
Commander
Deseret Chemical Depot
Sept 23, 2004



- 50% destruction milestone
- CSEPP Success
- Delivery of first VX Spraytank to TOCDF
- OMF Mission Change
 - 4.2-inch HD Mortar Reconfiguration Complete
 - Secondary Waste Processing
 - Metal Parts Furnace operational - VX Metals
 - Planning Trial Burn
 - Material Decontamination Chamber (MDC2)
 - Operational - 1,400 DPE Suits to date

- Increased Leaker Activity
 - 5 Igloos filtered due to low readings
- Heightened Security Measures Continue
 - Transition from military augmentation end of year
- Closure Process Continues



U.S. ARMY CHEMICAL MATERIALS AGENCY
CREATING A SAFER TOMORROW

Chemical Disposal Program Progress for Utah Citizens' Advisory Commission

Ted Ryba

Acting TOCDF Site Project Manager

September 23, 2004

Chemical Disposal Program Status

- **Aberdeen Chemical Agent Disposal Facility - Maryland**
 - Project on schedule to complete agent destruction on January 12, 2005
 - More than 1,216,262 pounds of mustard agent neutralized as of September 14 (37.5%)
- **Anniston Chemical Agent Disposal Facility - Alabama**
 - The ANCDF will destroy 2,254 tons of GB, VX and HD stored in rockets, projectiles, land mines, mortars and bulk containers
 - As of September 13, over 38-thousand GB rockets (90.9%) have been destroyed - "Gelled" rockets being currently processed
 - State approves MPF Trial Burn Plan allowing shakedown operations to begin with projectiles

Chemical Disposal Program Status

- **Blue Grass Chemical Agent-Destruction Pilot Plant (BGCAPP)- Kentucky**
 - The plant will destroy 523 tons of GB, VX and H stored in rockets and projectiles
 - The government has completed the review of the initial design and submitted comments to the System Contractor (Bechtel Parsons)
 - Construction of a new gate and access road to the facility is scheduled to begin in January 2005
 - Facility construction is scheduled to begin late 2005

Chemical Disposal Program Status

- **Newport Chemical Agent Disposal Facility - Indiana**
 - The NECDF will neutralize 1,269 tons of VX stored in bulk containers
 - Systemization of plant systems and workforce preparations continue
 - Agent operations startup tentatively scheduled for Fall 2004 based on plant ready certification; release of CDC report; and Findings of No Significant Impact (FONSI) relating to VX hydrolysate status
 - Government reviewing public comments on shipment of VX hydrolysate to DuPont in New Jersey for treatment

Chemical Disposal Program Status

- **Pine Bluff Chemical Agent Disposal Facility - Arkansas**
 - Systemization continues for optimization of process controls, equipment, procedures and training
 - Destruction operations expected to begin February 2005
 - Systems Contractor (Washington Demil Group) is 94% of planned 703 personnel as of August 27
 - Initiative underway to recruit workers in Pueblo for work at Pine Bluff to eventually transfer back to Pueblo
 - Total GB, VX and HD agent in storage is 3,850 tons - next largest stockpile compared to DCD (13,617 tons)

- **Pueblo Chemical Agent Destruction Pilot Plant (PCAPP) - Colorado**
 - The PCAPP will destroy 2,611 tons of HD in projectiles and mortars
 - Government has completed reviews of intermediate design and issued partial acceptance. DOD directs performance of trade studies to identify potential cost saving measures
 - All permits issued for initial construction
 - Ground breaking open house conducted on September 18

Chemical Disposal Program Status

- **Umatilla Chemical Agent Disposal Facility - Oregon**
 - First GB agent rocket destroyed on September 8
 - Operations suspended on September 15 when workers accessed toxic area without required protective equipment
 - Operations resumed September 20 - Seventeen GB rockets completed to date with processing to gradually increase to ensure safe disposal
 - On September 21, Oregon court denies activist request to halt operations - Decisions still pending in two other lawsuits (activists and workers) - both trials completed
 - Total agent in storage of GB, VX and HD is 3,717 tons (third largest in national stockpile)

BRIEFING TO THE UTAH CITIZENS' ADVISORY COMMISSION

**Joe Majestic, Deputy GM-Risk Management
Tom Burns, Deputy GM-Plant Operations
Tim Olinger, Project Manager-Mustard**

September 23, 2004



PLANT STATUS

- **50% Agent Destruction Milestone achieved 12 Sep 04!**
- **As of 29 Aug 04, TOCDF worked 3,505,780 hours without a lost day injury. The record ended on 14 Sep 04.**
- **Stack ACAMS/Monitoring Investigation Completed**
- **Environmental Compliance Review**



TOCDF PROCESSING

Data as of 21 Sep 04

VX Ton Container Destroyed	100%
VX 155mm Energetic Projectiles Destroyed	100%
VX M55 Rockets Destroyed	100%
VX M56 Rocket Warheads Destroyed	100%
VX Spray Tanks Destroyed	28%
VX Landmines Destroyed	0%



TOCDF PROCESSING

Data as of 21 Sep 04

VX Nerve Agent Destroyed of Total TOCDF VX Stockpile	60%
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Agent Destroyed of Total TOCDF	50%
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Percent of Total National Stockpile	22%
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OTHER KEY ACTIVITIES

- **Completed VX 155mm Projectile Campaign**
- **Completed VX Spray Tank ORR and began processing**
- **Completed Spray Tank Demonstration Test**
- **Preparations for MACT implementation**



VX M23 LAND MINES



- 1.25 Gallons/10.5 Lbs VX Per Mine
- Over 22,000 Mines In Stockpile

- Steel - 16 Gallon Drum
- 100 Lbs Drum Weight
- 3 Mines Per Drum
- 6 Explosive Components Per Drum
- Packing Inserts



VX M23 LAND MINES

- **Lessons Learned From JACADS**
- **Process Hazard Review**
- **Developed Procedures As A Process Team**
- **Mine Machine Installation (Over 100 Entries)**
- **Developed Improved Monitoring Methods -
Mine Drum Monitoring Device (MDMD)**
- **Crew Practice**
- **Operational Readiness Review**

MUSTARD STRATEGY STATUS

- **Area 10 Sampling 80% Design Review Preparation**
- **RPT/MWT 10% Design Review Completed 19 Aug 04**
- **PAS Filtration System**
- **Mercury CEMS**
- **Rinse & Drain Station**
- **DUN/BRA Dismantlement**
- **LIC/MPF Ton Container Heel Modeling**

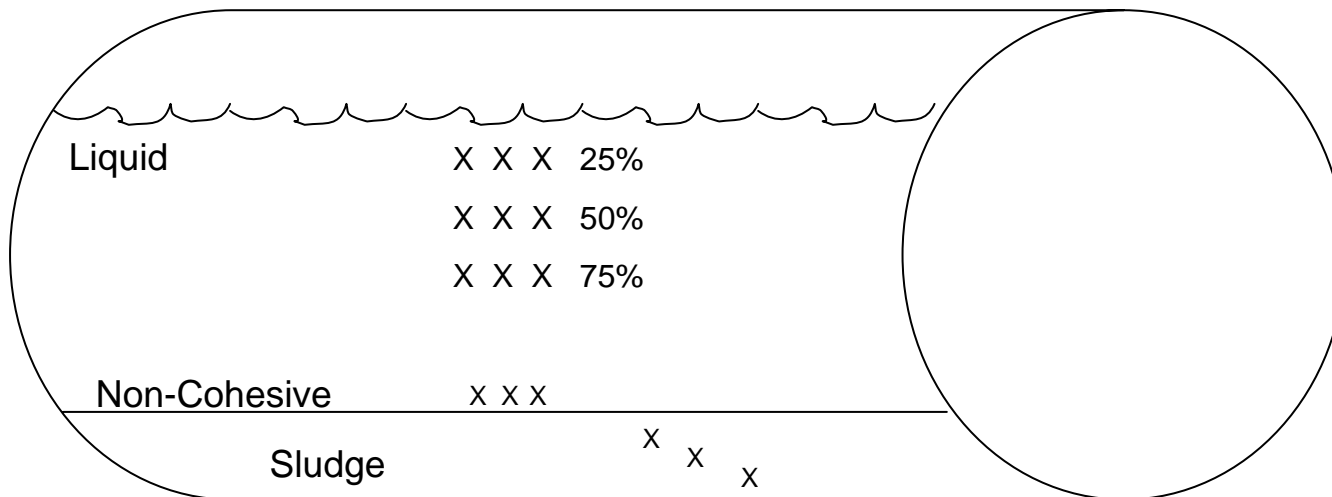


SAMPLING VALIDATION

Statistical Sampling of 13 Ton Containers

Two Questions to be answered by Liquid Sample Validation:

- Are Mercury Concentrations consistent within the liquid level of each Ton Container?
- Do the new Mercury Concentrations agree with Data generated in 2003 Study?



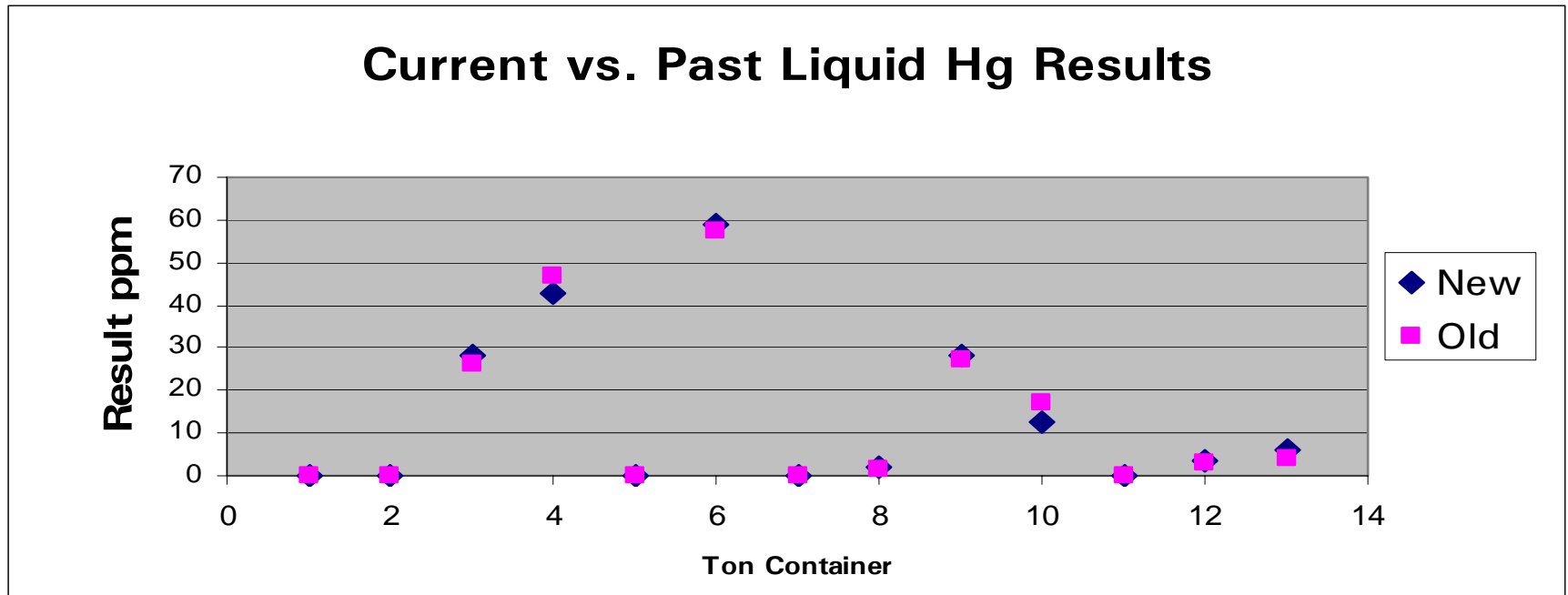
SAMPLING VALIDATION

LIQUID SAMPLE CONCLUSIONS

- **The Relative Standard Deviations calculated show the data is consistent within each layer in each ton container.**
- **The calculated statistical differences showed there were no statistical differences between the sampling layers.**
- **One liquid sample will be representative of the liquid Mustard in each ton container.**

SAMPLING VALIDATION

LIQUID SAMPLE VALIDATION DATA vs. PRIOR DATA



- Averages calculated from nine liquid samples in each ton container
- Averages compared to the data generated in 2003